

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kosaraju Krishna MOHAN, et. al.
Serial No.: 09/770,340
Filed: January 26, 2001
For: LOW DENSITY PAPER AND PAPERBOARD ARTICLES
GAU/Examiner:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein.

This statement is believed to be in compliance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, including submission of the enclosed full-text copies.

By this submission applicant is not admitting the materiality of these references; they are merely submitted to ensure full compliance with 37 C.F.R. § 1.56.

Respectfully submitted,

LUEDEKA, NEELY & GRAHAM, P.C.

By: 

Mark S. Graham
Registration No. 32,355

Date: April 6, 2001
P.O. Box 1871
Knoxville, Tennessee 37901
(865) 546-4305

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Mark S. Graham

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Complete If Known

Application Number	09/770,340		
Filing Date	January 26, 2001		
First Named Inventor	Kosaraju Krishna MOHAN		
Group Art Unit			
Examiner Name			
Sheet	1	of	5
		Attorney Docket No.	54821.P1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear
		3,293,114	D. Kenaga, et al.	12/20/1966	
		3,357,322	L. D. Gill	01/12/1965	
		3,468,467	S. W. Amberg	09/23/1969	
		3,556,934	F. Meyer	01/19/1971	
		3,615,972	D. Morehouse, et al.	10/26/1971	
		3,779,951	R. Streu	12/18/1973	
		3,785,254	Robert H. Mann	01/15/1974	
		3,941,634	H. Nisser, et al.	03/02/1976	
		4,051,277	R. M. Wilkinson	09/27/1977	
		4,133,688	W. H. Sack	01/09/1979	
		4,233,325	G. Slangan	11/11/1980	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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		4,237,171	Fred C. Laage	12/02/1980	
		4,241,125	R. G. Canning	12/23/1980	
		4,435,344	A. Iioka	03/06/1984	
		4,451,585	B. Andersson	05/29/1984	
		4,483,889	B. Andersson	11/20/1984	
		4,548,349	R. Tunberg	10/22/1985	
		4,581,285	E. Mahefkey, Jr.	04/08/1986	
		4,617,223	D. F. Hiscock	10/14/1986	
		4,619,734	I. Andersson	10/28/1986	
		4,777,930	M. E. Hartz	10/18/1988	
		4,781,243	N. DeVogel	11/01/1988	
		4,836,400	W. Chaffey, et al.	06/06/1989	

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		4,898,752	G. A. Cavagna	02/06/1990	
		4,902,722	G. E. Melber	02/20/1990	
		4,946,737	C. M. Lindeman, et al.	08/07/1990	
		4,982,722	W. Burk Wyatt	01/08/1991	
		5,092,485	T. T. Lee	03/03/1992	
		5,096,650	D. J. Renna	03/17/1992	
		5,125,996	B. C. Campbell, et al.	06/30/1992	
		5,145,107	V. K. Silver	09/08/1992	
		5,226,585	R. Varano	07/13/1993	
		5,363,982	C. E. Sadlier	11/15/1994	
		5,370,814	I. O. Salyer	12/06/1994	
		5,424,519	G. Salee	06/13/1995	

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		5,454,471	J. Norvell	10/03/1995	
		5,477,917	I. Salyer	12/26/1995	
		5,478,988	T. E. Hughes, et al.	12/26/1995	
		5,490,631	A. Iioka	02/13/1996	
		5,499,460	Y. G. Bryant	03/19/1996	
		5,520,103	D. Zielinski, et al.	05/28/1996	
		5,601,744	Wayne D. Baldwin	02/11/1997	
		5,637,389	David Colvin, et al.	06/10/1997	
		5,705,242	P. J. Andersen	01/06/1998	
		5,759,624	Douglas Neale, et al.	06/02/1988	
		5,792,398	Bengt Andersson	08/11/1998	
		5,880,435	William M. Bostic	03/09/1999	
		5,884,006	S. Frohlich, et al.	03/16/1999	
		5,952,068	D. Neale, et al.	09/14/1999	

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		Tappi / May 1972, Vol. 55, No. 5, pg. 770-771	
		Tappi / December 1973, Vol. 56, No. 12, Pg. 158-160	
		"The Use of Microspheres to Improve Paper Properties", by Soderberg, Paper Technology, August 1989, pgs. VIII/17-VII/21	

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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete If Known	
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				Filing Date	January 26, 2001
				First Named Inventor	K. Mohan, et al.
				Group Art Unit	
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Sheet	5	of	5	Attorney Docket No.	54821.P1

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		"XPANCEL®", An Introduction, a publication from Expancel, Box 13000, S0-850 13 Sundsvall, SWEDEN	
		"The Application of Microspheres for the Production of High Bulk Papers", by M. Baumeister, Das Papier, Vol. 26, no. 10A: 716-720 (1972)	
		"Microspheres find use as fiber replacement in low-density board", by David O. Bowen, Pulp & Paper November 1976, pg. 126-127	
		EXPANCEL ® Expandable Microspheres in Paper and Board, by Mark Lunabba, KemaNord Plast AB, Sector Microspheres, Box 13000, S-850 13 Sundsvall, SWEDEN	
		"Expandable Microspheres in Board", World Pulp & Paper Technology, pgs. 143-145	
		"Foams on the Cutting Edge", by Ray Erikson, January 1999	

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Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

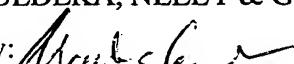
It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein.

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Respectfully submitted,

LUEDEKA, NEELY & GRAHAM, P.C.

By: 

Mark S. Graham
Registration No. 32,355

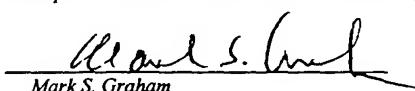
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		3,819,470	<i>Shaw, et al.</i>	06-25-1974	
		4,179,546	<i>Garner, et al.</i>	12-18-1979	
		4,324,753	<i>Gill</i>	04-13-1982	
		4,988,478	<i>Held</i>	01-29-1991	
		5,800,676	<i>Koike, et al.</i>	09-01-1998	
		6,379,497	<i>Sandstrom, et al.</i>	04-30-2002	

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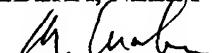
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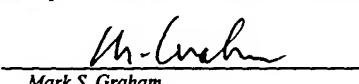
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		JA	2669767	Oji Paper Co.	1997		

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